



TRI-COUNTY
Engineering Consultants

OWNER / CLIENT

LENOX TOWNSHIP
CAM TROMBLY
DPW SUPERINTENDENT
(586) 727-2085

PROJECT START - END
MAY 2019 - JUL 2019

PROJECT COST
\$400,000

KEY PERSONNEL
SERMED K. SAIF, PE

PROJECT NO.
LX18002



MUNICIPAL



48701 Hayes Road
Shelby Twp, MI 48315

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PROJECT PROFILE

FROST ROAD WATER MAIN EXTENSION – 26 MILE TO I-94 LENOX TOWNSHIP, MACOMB COUNTY, MICHIGAN

BACKGROUND

As master planned and per the Township system reliability study, this extension is necessary to connect the two master metered service districts, improving the system redundancy and minimum pressures.



LOCATION

The water main was designed to be extended from an existing 16-inch water main stub along Frost Road, north of 26 Mile Road, to approximately half a mile north across I-94 freeway. The second phase extension will continue north to an existing 16-inch water main at the intersection of Frost Road and 27 Mile Road.

SCOPE

The sewer design and specifications were developed in accordance with the Great Lakes Water Authority (GLWA), Michigan Department of Transportation (MDOT), Road Commission of Macomb County (RCMC), and Michigan Department of Environmental Quality (MDEQ) requirements.

SPECIAL FEATURES

The project featured open-cut excavation (approximately 1,400 lineal feet of Ductile Iron Pipe) and tunneling construction (approximately 700 lineal feet of HDPE) at depths of 5' or more below existing grade through various soil types. Horizontal Directional Drilling method was utilized for safety concerns, minimizing dewatering operations and construction time across I-94 freeway.

Specific services consisted of the water main design, permitting, contract administration, construction layout and staking, and record drawings.

